



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	9004	BOGIE NO	197302 / 197306	DISPATCH DATE	14-OCT-19	
2.	RAILWAY	NR	TYPE OF COACH	LWFCWAC	COACH NO	196912	
3.	BOOKED TO	SSE/C&W/DLI					
4.	Tare Weight of Coach	42.5 T					
5.	Carrying Capacity	Seating	38	Sleeping	NIL	Luggage	NIL
6.	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (for LWSCZDAC)				
	iii)	Maximum height from Rail Level	4250 (for LWACCN), 4039 (for LWACCW, LGS, LWSCN, LWSCZAC, LWFAC, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)				
	iv)	CBC Height	Specified: 1105 +0/-15 mm	1105	1105		
	v)	CBC (Make)		SANROK	SANROK		
	vi)	Buffer (Make)					
7.	7.1	Air Brake Testing:	Description	Specified			
		Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²	06 - 10 Sec			
			Max Pressure in BC	3.80±0.15 Kg/cm ²			
			All Brake are applied	OK			
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm ² /mi	No brake application			
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm ² /Sec, After 02 Sec	Brake must apply			
8.	8.1	Painting Details:	Type of Paint	Make	Average Gloss Value		
		Paint	PU PAINT	GS	86 / 86		
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	EP BRAK / BRAKE EQUIPMENT	KBI				
	2	BIO-TOILET	PD STEEL, RASANDIK				
	3	FLOOR BOARD	TWPL				
	4	PVC	RESPONSIVE				
	5	UIC VESTIBULES	KRP				
	6	WATER TANKS	SHIVALIK, SHIVALIK, AMIT				
	7	BODY SIDE DOOR	JVR				
	8	VESTIBULE SLIDING DOOR	JBM				
	9	SEAT & BEARTH	AAR KAY FOAM, HINDUSTAN FIBER				
	10	LAVATORY DOORS	HIND, CMT				
10.	10.1	Modification/ Trial (If any): 1-ASPIRATION FIRE/SMOKE DETECTION WITH ALARM SYSTEM AS PER RDSO SPECIFICATION NO. RDSO/2008/CG-04 REV.04, SUPPLIED AND COMMISSIONED BY M/S- SANROK ENTERPRISES , FARIDABAD, CONTACT NO. 09810566723. 2-VINYL WRAPPING SUPPLIED AND FITTED BY M/S TECHNO EXPERT, JALANDHAR.					
	10.2	Deviations (If any): NIL					



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

QMF 9829, VER:1.00

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date			
		9004	NR	LWFCWAC	196912	14-OCT-19			

11.1 Wheel & Axle Details:									
i.	Bogie No.	197302				197306			
ii.	Frame No.	ECBT-811				ECBT-809			
iii.	Bolster No.	PD-CA-1923				PD-CA-1886			
iv.	Axle No.	RWF - R2067		RWF - R2145		RWF - N4289		RWF - P8206	
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side
vi.	Wheel Dia.	917.17	917.17	917.10	917.10	917.00	917.00	917.30	917.30
vii.	Wheel Disc No.	33502-8RH3-TZ	33500-8QP3-TZ	33319-8QL8-TZ	28999-8QM8-TZ	14008-8MR4-TZ	06899-8ML5-TZ	35946-8QM9-TZ	33503-8RH3-TZ
viii.	RB Nos.	05724	05365	05603	05577	05769	04474	04675	03830
ix.	RB Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							

11.2 Secondary suspension load deflection Values:				
Description	Lateral Damper Side	Non-Lat. Damper Side	Lateral Damper Side	Non-Lat. Damper Side
i. Make & Nos.	TAYAL-19-7-2282	TAYAL-19-7-2238	TAYAL-19-6-1559	TAYAL-19-6-1518

Items traceability:					
11.3	Sno.	Item			Make
	i.	Primary Outer Spring	GBD-18-12	STLI-19-01	GBD STLI
	ii.	Primary inner Spring	STLI-19-08	STLI-19-08	STLI
	iii.	Primary Damper	1551, 795, 771, 998	1282, 1599, 1582, 0815	GABRIEL
	iv.	Secondary Damper	902, 919	1285, 0914	GABRIEL
	v.	Lateral Damper	1785	1923	GABRIEL
	vi.	Break cylinder & Caliper	B4617-691,B4643-691, B4816-691,B4644-691	B2512-691,B2547-691, B2513-691,B2546-691	KBI
	vii.	Break Disc			FTI
	viii.	Contral arm top			KUMAR HAPL
	ix.	Control arm bottom			KUMAR HAPL
	x.	Top rubber Pad			AVADH
	xi.	Vertical Bump Stop			AVADH
	xii.	Ball Joint Control arm			AVADH
	xiii.	Lateral Bump stop			AVADH
	xiv.	Traction center make			SARITA
	xv.	Traction lever make			SARITA
	xvi.	Ball joint traction lever			AVADH
	xvii.	Traction center elastic			GMT AVADH
	xviii.	Secondary rubber pad			NA
	xix.	Rubber spring			NA
	xx.	Anti roll bar make			SARITA EMSON
	xxi.	Ball joint roll link			SARITA
	xxii.	Fork make			SARITA

11.4	i. Modification/Trail(if any):	NIL
	ii. Deviations (if any):	Deviations (If any): NIL

LWFCWAC - 9004



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

TYPE OF COACH : LWFCWAC Shell No : 9004 COACH_NO : 196912

RAILWAY : NR COUPLING TYPE : CBC DATE OF FITMENT: 07-OCT-19

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name PP-SIDE	
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0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	KNOOR - BREMSE INDIA PVT.LTD.	0119071106
2	33635080-2, PUMP CONTROLLER	EDTS186	L E CORP. KAPSONS	19041247
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	INTEC CORPORATION	19-H-1328
2	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIFICATION NO. EDTS075	SIDWAL REFRIGERATION INDUSTRIES PVT. LTD	19062448
1	33640300-1, PA SYSTEM	EDTS173,TYPE-V	AHUJA BY PUNJAB RADIOS	4486240
0	33641419-0, REGULATED BATTERY CHARGER	EDTS109	HI-REL POWER ELECTRONICS PVT.LTD	19082092
0	33641419-0, REGULATED BATTERY CHARGER	EDTS109	HI-REL POWER ELECTRONICS PVT.LTD	HIREL
1	33641663-1, ANNUNCIATOR UNIT	EDTS 117	M/S V.S INSTRUMENTS	NIL
1	33641936-1, SWITCH BOARD CABINET	EDTS-073, REV.-A	AMIT ENGINEERS	AE-SB--588
2	33641936-2, DISCONNECTING & EARTHING DEVICE	EDTS-073, REV.-A	AMIT ENGINEERS	L&T

Group Name NON-PP SIDE	
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1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	INTEC CORPORATION	19-H-1331
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Group Name PANTRY	
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1	33635330-1, HOT CASE	EDTS139	NOT PROVIDED	NIL
2	33635330-2, BOTTLE COOLER CUM DEEP FREEZER	EDTS139	NOT PROVIDED	NIL

Group Name BOGIE PP SIDE	
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1	33635067-1, BOGIE 1	EDTS101 REV-"A"	MAA LAXMI INDUSTRY	197306
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Group Name BOGIE NPP SIDE	
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2	33635067-2, BOGIE 2	EDTS101 REV-"A"	MAA LAXMI INDUSTRY	197302
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Group Name UNDER FRAME	
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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS			
ROLLING STOCK CERTIFICATE OF			
S.No	PL No & Item Description	Drawing No	Make Item Sr.No.(if any)
Group Name UNDER FRAME			
1	33635080-1, PUMP	EDTS186	KAPSON (KIND) PUMP SET 19030275/19030276
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	MAA LAXMI INDUSTRY MLI/TRANS/60KV A/010
0	33635328-0, 3 KVA DELTA/STAR 415/190 V TRANSFORMER	EL/EOG/4-74 WITH RCF NOTE-1	ELECTRO WAVES ELECTRONICS PVT. LTD. WLDTSB-19471
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	ABROL ENGINEERING COMPANY (P)LTD. 2019-07-118
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	RSI SWITCHGEAR PVT. LTD. 19021775
0	33641729-0, 70AH,110V, VRLA LEAD ACID MAINTENANCE FREE BATTERY(9 NOSX12V)	RDSO/PE/SPEC/AC/09-2008,REV-1 WITH AM-1	AMARA RAJA BATTERIES LTD. 03/2019
0	33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'C'.	MEENAKSHI ENGINEERING WORKS NIL
1	35982913-1, CAPACITOR BANK FOR LHB EOG POWER CAR COACHES	EDML130, TABLE-2	NEC SWITCHGEAR S & CONTROLS 2018-10-5273
Group Name COMPARTMENT			
2	33640300-2, SPEAKERS	EDTS173, TYPE-V	AHUJA BY PUNJAB RADIOS NIL
2	33641663-2, INDICATOR UNITS	EDTS 117	M/S V.S INSTRUMENTS NIL
Group Name UNDER FRAME PP SIDE			
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	INTERNATION ALS SWITCHGEAR PVT.LTD NIL
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANN. A	PRIME ELECTRONICS NIL
Group Name UNDER FRAME NPP SIDE			
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	INTERNATION ALS SWITCHGEAR PVT LTD NIL
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANN. A	PRIME ELECTRONICS NIL



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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS		
ROLLING STOCK CERTIFICATE OF		
SSE/EL/QC	AME/WM QC/DY CQM I	



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	9003	BOGIE NO	197307 / 197308	DISPATCH DATE	22-OCT-19
2.	RAILWAY	NR	TYPE OF COACH	LWFCWAC	COACH NO	196424
3.	BOOKED TO	SSE/C&W/DLI				
4.	Tare Weight of Coach	42.5 T				
5.	Carrying Capacity	Seating	38	Sleeping	NIL	Luggage NIL
6.	6.1 Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0			
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (for LWSCZDAC)			
	iii)	Maximum height from Rail Level	4250 (for LWACCN), 4039 (for LWACCW, LGS, LWSCN, LWSCZAC, LWFAC, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)			
	iv)	CBC Height	Specified: 1105 +0/-15 mm	1105	1105	
	v)	CBC (Make)		SANROK	SANROK	
	vi)	Buffer (Make)				
7.	Air Brake Testing:		Description		Specified	
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²		06 - 10 Sec	
			Max Pressure in BC		3.80±0.15 Kg/cm ²	
			All Brake are applied		OK	
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm ² /mi		No brake application	
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm ² /Sec, After 02 Sec		Brake must apply	
8.	Painting Details:		Type of Paint		Make	Average Gloss Value
	8.1	Paint	PU PAINT		GS	87 / 87
	8.2	Application of PCN-123	SATISFACTORY			
	8.3	Insulation	SATISFACTORY			
9.	Traceability of Furnishing Items:					
	1	EP BRAK / BRAKE EQUIPMENT	KBI			
	2	BIO-TOILET	CEMCON, JSL			
	3	FLOOR BOARD	TWPL			
	4	PVC	RESPONSIVE			
	5	UIC VESTIBULES	KRP			
	6	WATER TANKS	SHIVALIK, AMIT, SHIVALIK			
	7	BODY SIDE DOOR	SVARN INFRATEL			
	8	VESTIBULE SLIDING DOOR	JBM			
	9	SEAT & BEARTH	AAR KAY FOAM, AMIR CHAND			
	10	LAVATORY DOORS	CMT			
10.	10.1	Modification/ Trial (If any): 1-ASPIRATION FIRE/SMOKE DETECTION WITH ALARM SYSTEM AS PER RDSO SPECIFICATION NO. RDSO/2008/CG-04 REV.04, SUPPLIED AND COMMISSIONED BY M/S- SANROK ENTERPRISES , FARIDABAD, CONTACT NO. 09810566723. 2-VINYL WRAPPING SUPPLIED AND FITTED BY M/S TECHNO EXPERT, JALANDHAR.				
	10.2	Deviations (If any): NIL				



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

QMF 9829, VER:1.00

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date			
		9003	NR	LWFCWAC	196424	22-OCT-19			

11.1 Wheel & Axle Details:									
i.	Bogie No.	197307				197308			
ii.	Frame No.	ECBT-858				ECBT-797			
iii.	Bolster No.	PD-CA-1966				NE-34			
iv.	Axle No.	RWF - P6286		RWF - P9562		RWF - R1671		RWF - P9577	
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side
vi.	Wheel Dia.	917.00	917.00	917.00	917.00	917.20	917.20	917.30	917.30
vii.	Wheel Disc No.	45469-8RM4-TZ	38160-8RS3-TZ	37872-8RL7-TZ	37871-8RL7-TZ	31923-8RH0-TZ	41364-8RQ8-TZ	35224-8QL8-TZ	45148-8RS1-TZ
viii.	RB Nos.	05441	09212	09327	07469	05730	04462	05708	04670
ix.	RB Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							

11.2 Secondary suspension load deflection Values:				
Description	Lateral Damper Side	Non-Lat. Damper Side	Lateral Damper Side	Non-Lat. Damper Side
i. Make & Nos.	TAYAL-19-8-2812	TAYAL-19-7-2237	TAYAL-19-8-2812	TAYAL-19-7-2328

Items traceability:					
Sno.	Item			Make	
i.	Primary Outer Spring	STLI-19-01	STLI-19-01	STLI	
ii.	Primary inner Spring	STLI-19-08	STLI-19-08	STLI	
iii.	Primary Damper	1432, 0869, 1288, 1026	731, 0874, 0792, 0777	SABOHEMA	
iv.	Secondary Damper	1297, 1295	1296, 0900	GABRIEL	
v.	Lateral Damper	1978	1892	GABRIEL	
vi.	Break cylinder & Caliper	B4635-691,B3992-691, B4823-691,B3989-691	B4637-691,B3992-691, B4823-691,B3993-691	KBI	
vii.	Break Disc			FTI	
viii.	Contral arm top			HAPL	
ix.	Control arm bottom			HAPL	
x.	Top rubber Pad			AVADH	
xi.	Vertical Bump Stop			AVADH	
xii.	Ball Joint Control arm			AVADH	
xiii.	Lateral Bump stop			AVADH	
xiv.	Traction center make			SARITA	
xv.	Traction lever make			JI	
xvi.	Ball joint traction lever			AVADH	
xvii.	Traction center elastic			SGA	GMT
xviii.	Secondary rubber pad			NA	
xix.	Rubber spring			NA	
xx.	Anti roll bar make			SARITA	
xxi.	Ball joint roll link			SARITA	
xxii.	Fork make			SARITA	

11.4	i. Modification/Trail(if any):	NIL
	ii. Deviations (if any):	Deviations (If any): NIL

LWFCWAC - 9003



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

TYPE OF COACH : LWFCWAC Shell No : 9003 COACH_NO : 196424

RAILWAY : NR COUPLING TYPE : CBC DATE OF FITMENT: 18-OCT-19

S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name	PP-SIDE		
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0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	KNOOR - BREMSE INDIA PVT.LTD.	0119091264
2	33635080-2, PUMP CONTROLLER	EDTS186	KALSI METAL WORK PVT LTD.	CPA-7854-01-2019
1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	INTEC CORPORATION	19-C-1164
2	33635237-2, MICRO PROCESSOR CONTROLLER	SPECIFICATION NO. EDTS075	SIDWAL REFRIGERATION INDUSTRIES PVT. LTD	19072530
1	33640300-1, PA SYSTEM	EDTS173,TYPE-V	AHUJA BY PUNJAB RADIOS	4486255
0	33641419-0, REGULATED BATTERY CHARGER	EDTS109	HI-REL POWER ELECTRONICS PVT.LTD	19082085
0	33641419-0, REGULATED BATTERY CHARGER	EDTS109	HI-REL POWER ELECTRONICS PVT.LTD	HIREL
1	33641663-1, ANNUNCIATOR UNIT	EDTS 117	M/S V.S INSTRUMENTS	NIL
1	33641936-1, SWITCH BOARD CABINET	EDTS-073, REV.-A	AMIT ENGINEERS	AE-SB--525
2	33641936-2, DISCONNECTING & EARTHING DEVICE	EDTS-073, REV.-A	AMIT ENGINEERS	L&T

Group Name	NON-PP SIDE		
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1	33635237-1, RMPU	SPECIFICATION NO. EDTS075	INTEC CORPORATION	19-C-1160
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Group Name	PANTRY		
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1	33635330-1, HOT CASE	EDTS139	NOT PROVIDED	NIL
2	33635330-2, BOTTLE COOLER CUM DEEP FREEZER	EDTS139	NOT PROVIDED	NIL

Group Name	BOGIE PP SIDE		
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1	33635067-1, BOGIE 1	EDTS101 REV-"A"	MAA LAXMI INDUSTRY	197307
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Group Name	BOGIE NPP SIDE		
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2	33635067-2, BOGIE 2	EDTS101 REV-"A"	MAA LAXMI INDUSTRY	197308
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Group Name	UNDER FRAME		
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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS				
ROLLING STOCK CERTIFICATE OF				
S.No PL No & Item Description		Drawing No	Make	Item Sr.No.(if any
Group Name UNDER FRAME				
1	33635080-1, PUMP	EDTS186	KAPSON (KIND) PUMP SET	19030147/ 19030148
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	MAA LAXMI INDUSTRY	MLI/TRANS/60KV A/013
0	33635328-0, 3 KVA DELTA/STAR 415/190 V TRANSFORMER	EL/EOG/4-74 WITH RCF NOTE-1	BHASIN PACKARD ELECTRONICS PVT. LTD.	03199721
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	ABROL ENGINEERING COMPANY (P)LTD.	2019-03-052
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	ABROL ENGINEERING COMPANY.PVT .LTD	2019-02-242
0	33641729-0, 70AH,110V, VRLA LEAD ACID MAINTENANCE FREE BATTERY(9 NOSX12V)	RDSO/PE/SPEC/AC/0 09-2008,REV-1 WITH AM-1	AMARA RAJA BATTERIES LTD.	01/2019
0	33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'C'.	MEENAKSHI ENGINEERING WORKS	NIL
1	35982913-1, CAPACITOR BANK FOR LHB EOG POWER CAR COACHES	EDML130, TABLE-2	NEC SWITCHGEAR S & CONTROLS	2018-10-5316
Group Name COMPARTMENT				
2	33640300-2, SPEAKERS	EDTS173, TYPE-V	AHUJA BY PUNJAB RADIOS	NIL
2	33641663-2, INDICATOR UNITS	EDTS 117	M/S V.S INSTRUMENTS	NIL
Group Name UNDER FRAME PP SIDE				
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	M.V.ELECTRO SYSTEM PVT.LTD.	NIL
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV- E,AM1&2 WITH ANNX. A	PRIME ELECTRONICS	NIL
Group Name UNDER FRAME NPP SIDE				
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	M.V.ELECTRO SYSTEM PVT.LTD.	NIL
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV- E,AM1&2 WITH ANNX. A	PRIME ELECTRONICS	NIL



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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS		
ROLLING STOCK CERTIFICATE OF		
SSE/EL/QC	AME/WM QC/DY CQM I	